

PRODUCT OVERVIEW

PMET 847 is a nickel based superalloy alloyed primarily with chromium, tungsten, and cobalt. PMET 847 is a precipitation hardened alloy and exhibits high strength even at temperatures up to 1800F. This alloy also exhibits excellent oxidation resistance at high temperatures making this alloy ideal for gas turbine engine vanes.

TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Density: 0.309 lb/in³
- ⇒ Melting Range: 2250-2450 F
- ⇒ Machinability: Good
- ⇒ Oxidation Resistance: Excellent
- ⇒ Corrosion Resistance: Good

APPLICATION

- ⇒ Gas Turbine Blades
- ⇒ Gas Turbine Vanes

NOMINAL CHEMICAL COMPOSITION (wt%)

Ni	Co	W	Cr	Al	Ta	Ti	Fe
BAL	10.0	10.0	8.0	6.0	3.0	1.0	<1.0

MECHANICAL PROPERTIES:

Tensile Strength		Yield Strength		Elongation
Ksi	MPa	Ksi	MPa	%
140	965	118	815	7

STANDARD SIZES & PACKAGING:

Diameter

0.045" (1.2 mm)